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VCR Main PCB

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Note

For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.

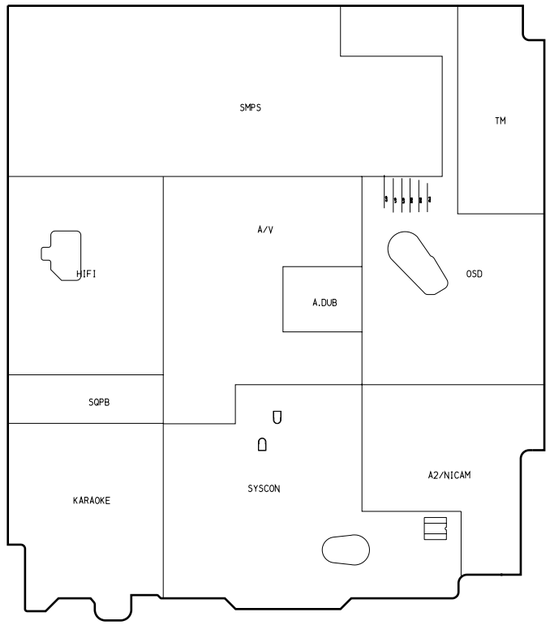
Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the "electrostatically sensitive (ES) devices" section of this service manual.

Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

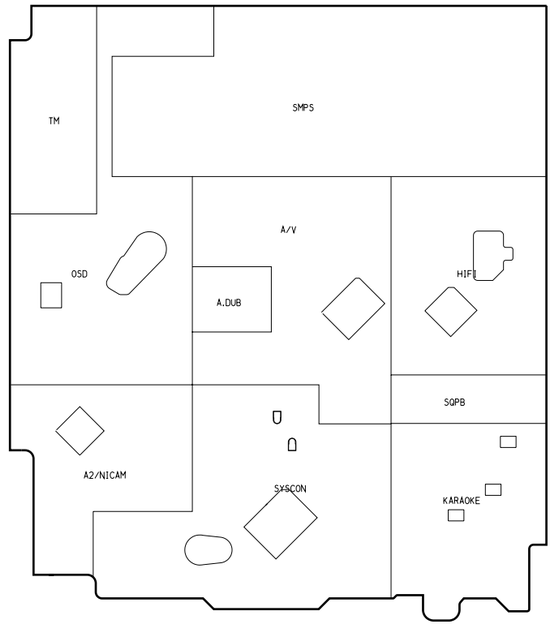
Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components. Use only the same type.

Block Identification of Main PCB

VCR MAIN PCB

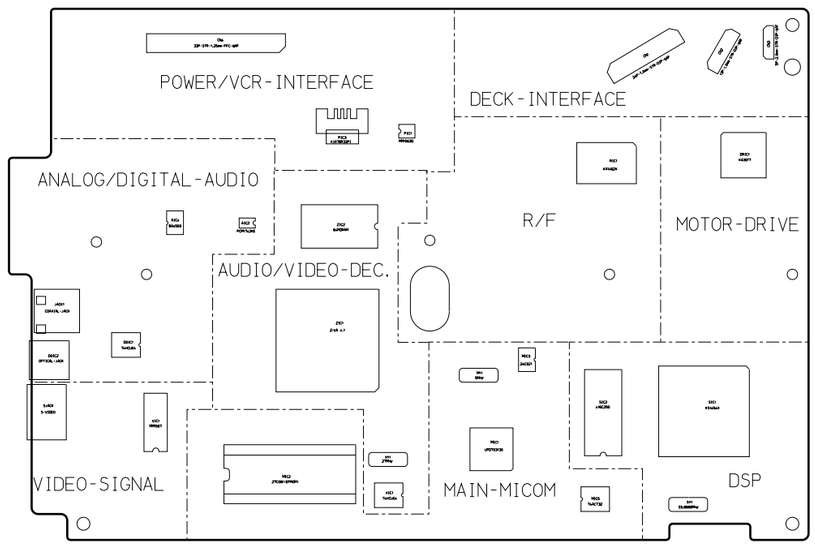


<Component Side>



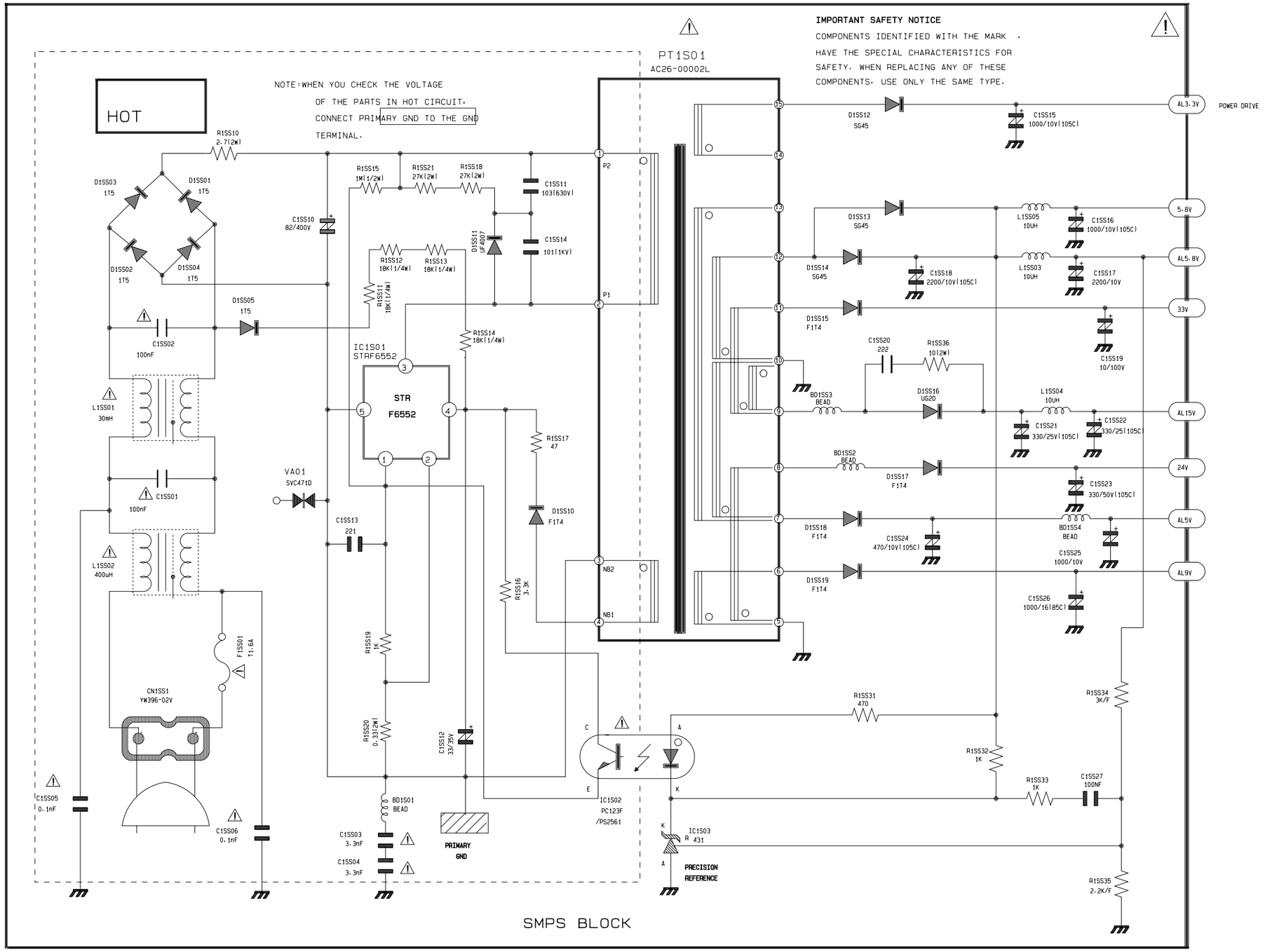
<Conductor Side>

DVD MAIN PCB

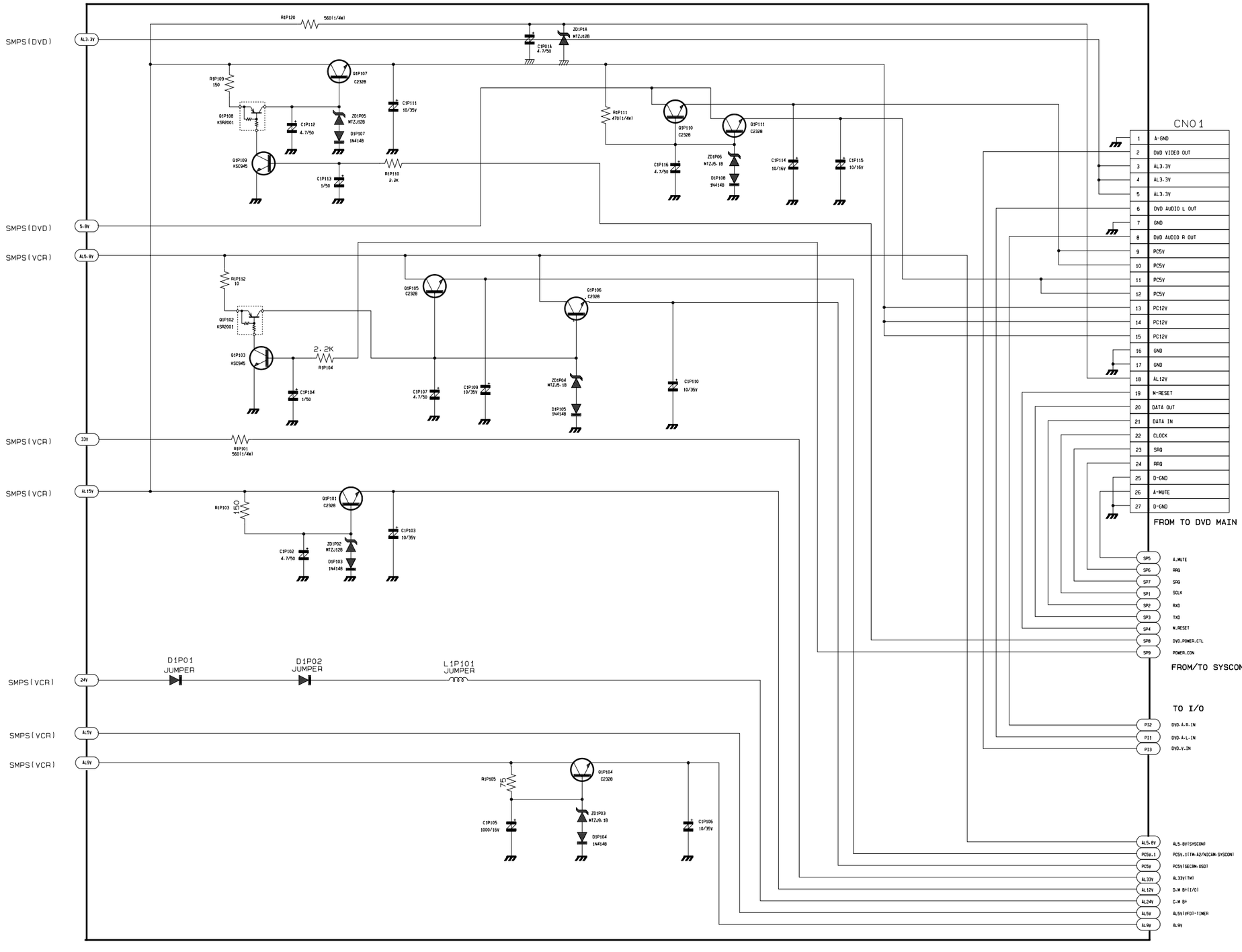


<Component Side>

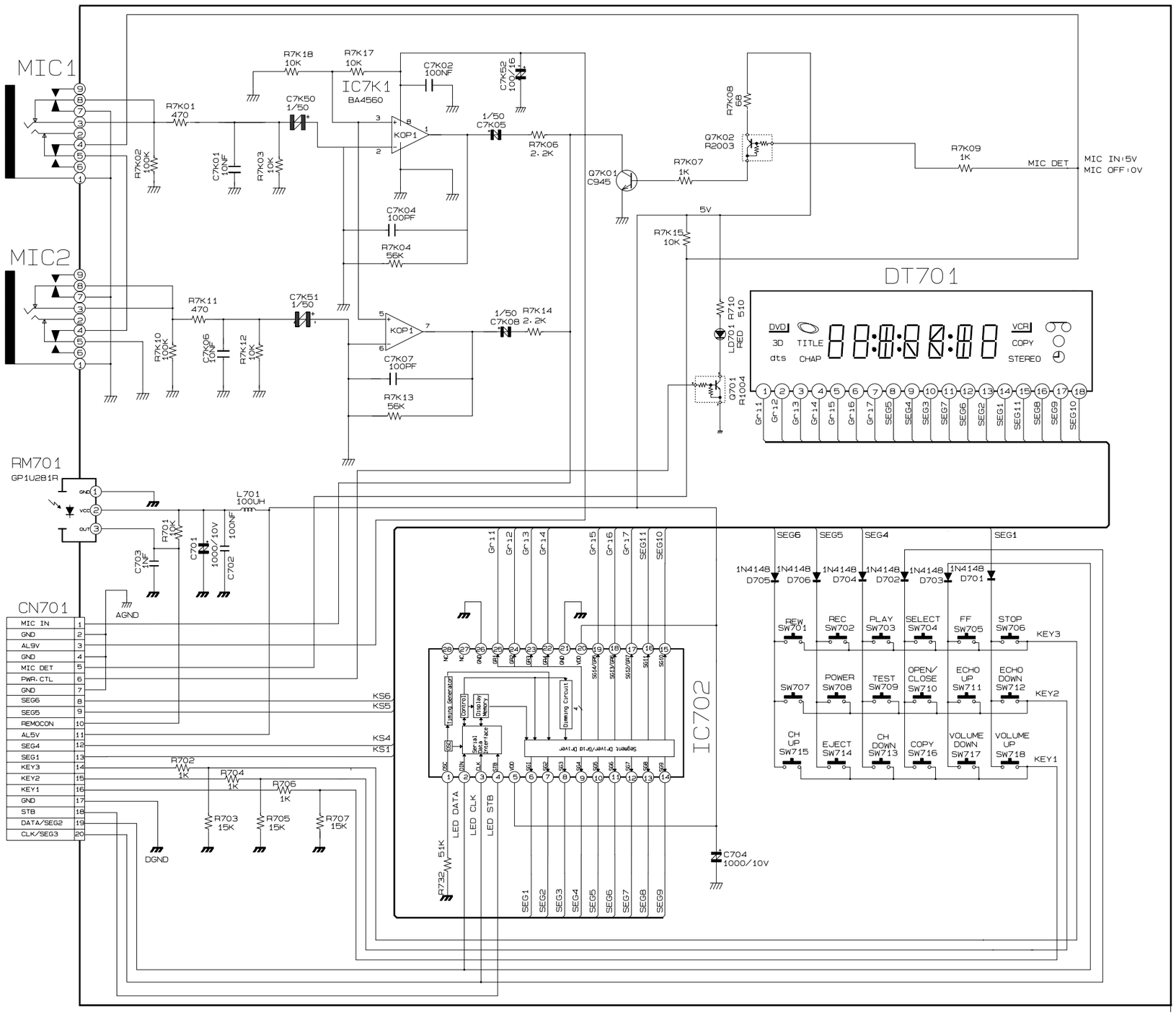
10-1 S.M.P.S.


HOT
NOTE:WHEN YOU CHECK THE VOLTAGE
OF THE PARTS IN HOT CIRCUIT.
CONNECT PRIMARY GND TO THE GND
TERMINAL.
PT1S01
AC26-00002L
IMPORTANT SAFETY NOTICE
COMPONENTS IDENTIFIED WITH THE MARK .
HAVE THE SPECIAL CHARACTERISTICS FOR
SAFETY. WHEN REPLACING ANY OF THESE
COMPONENTS. USE ONLY THE SAME TYPE.
R1SS10 2.7(2W)
D1SS03 1T5
D1SS01 1T5
D1SS02 1T5
D1SS04 1T5
C1SS10 82/400V
R1SS15 1M(1/2W)
R1SS21 27K(2W)
R1SS18 27K(2W)
C1SS11 103(630V)
D1SS11 UF4007
C1SS14 101(1KV)
R1SS12 18K(1/4W)
R1SS13 18K(1/4W)
R1SS11 18K(1/4W)
D1SS05 1T5
C1SS02 100nF
R1SS14 18K(1/4W)
IC1S01 STRF6552
STR F6552
L1SS01 30mH
C1SS01 100nF
L1SS02 400uH
F1SS01 T1.6A
CN1SS1 YW396-02V
C1SS05 0.1nF
C1SS06 0.1nF
VA01 SVC471D
C1SS13 221
R1SS17 47
D1SS10 F1T4
R1SS16 3.3K
R1SS19 1K
R1SS20 0.33(2W)
C1SS12 33/35V
BD1S01 BEAD
C1SS03 3.3nF
C1SS04 3.3nF
PRIMARY GND
P2
P1
NB2
NB1
IC1S02 PC123F /PS2561
IC1S03 R 431
PRECISION REFERENCE
R1SS31 470
R1SS32 1K
R1SS33 1K
C1SS27 100NF
R1SS34 3K/F
R1SS35 2.2K/F
D1SS12 SG45
C1SS15 1000/10V(105C)
D1SS13 SG45
L1SS05 10UH
C1SS16 1000/10V(105C)
D1SS14 SG45
C1SS18 2200/10V(105C)
L1SS03 10UH
C1SS17 2200/10V
D1SS15 F1T4
C1SS19 10/100V
C1SS20 222
R1SS36 10(2W)
BD1SS3 BEAD
D1SS16 UG2D
L1SS04 10UH
C1SS21 330/25V(105C)
C1SS22 330/25(105C
BD1SS2 BEAD
D1SS17 F1T4
C1SS23 330/50V(105C)
D1SS18 F1T4
C1SS24 470/10V(105C)
BD1SS4 BEAD
C1SS25 1000/10V
D1SS19 F1T4
C1SS26 1000/16(85C)
AL3.3V
POWER DRIVE
5.8V
AL5.8V
33V
AL15V
24V
AL5V
AL9V
SMPS BLOCK

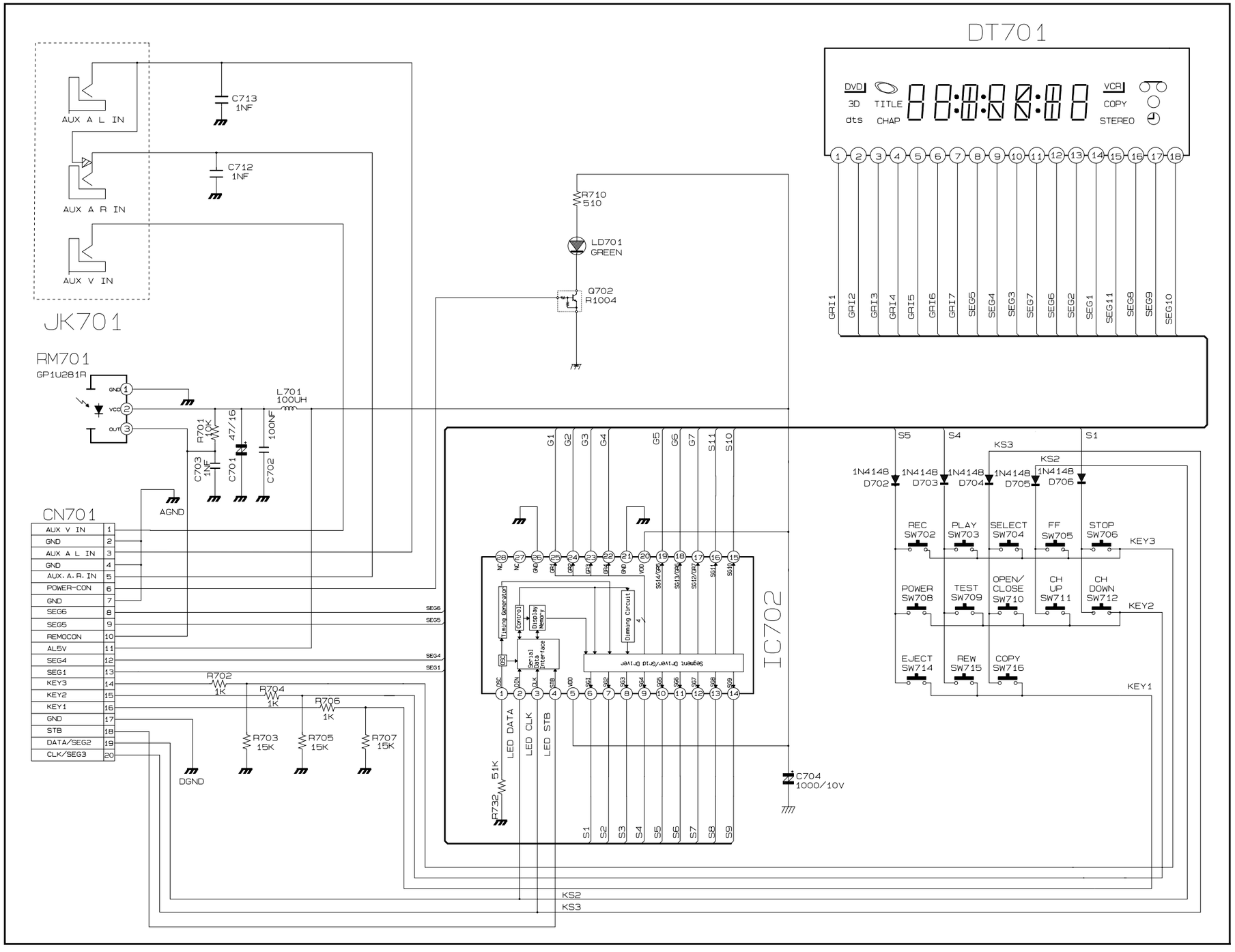
10-2 Power Drive



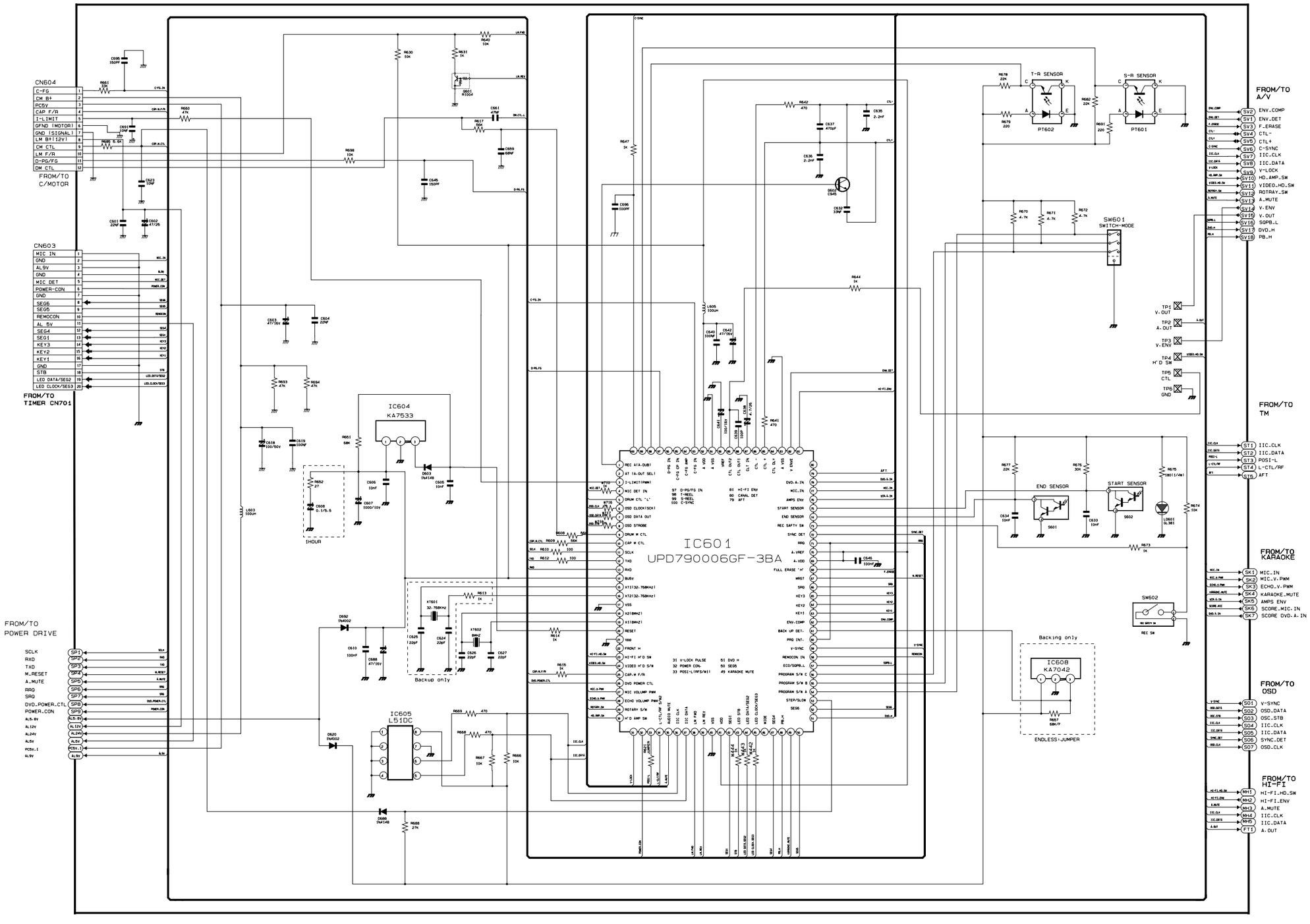
10-3 Function-Timer (Karaoke Models Only)



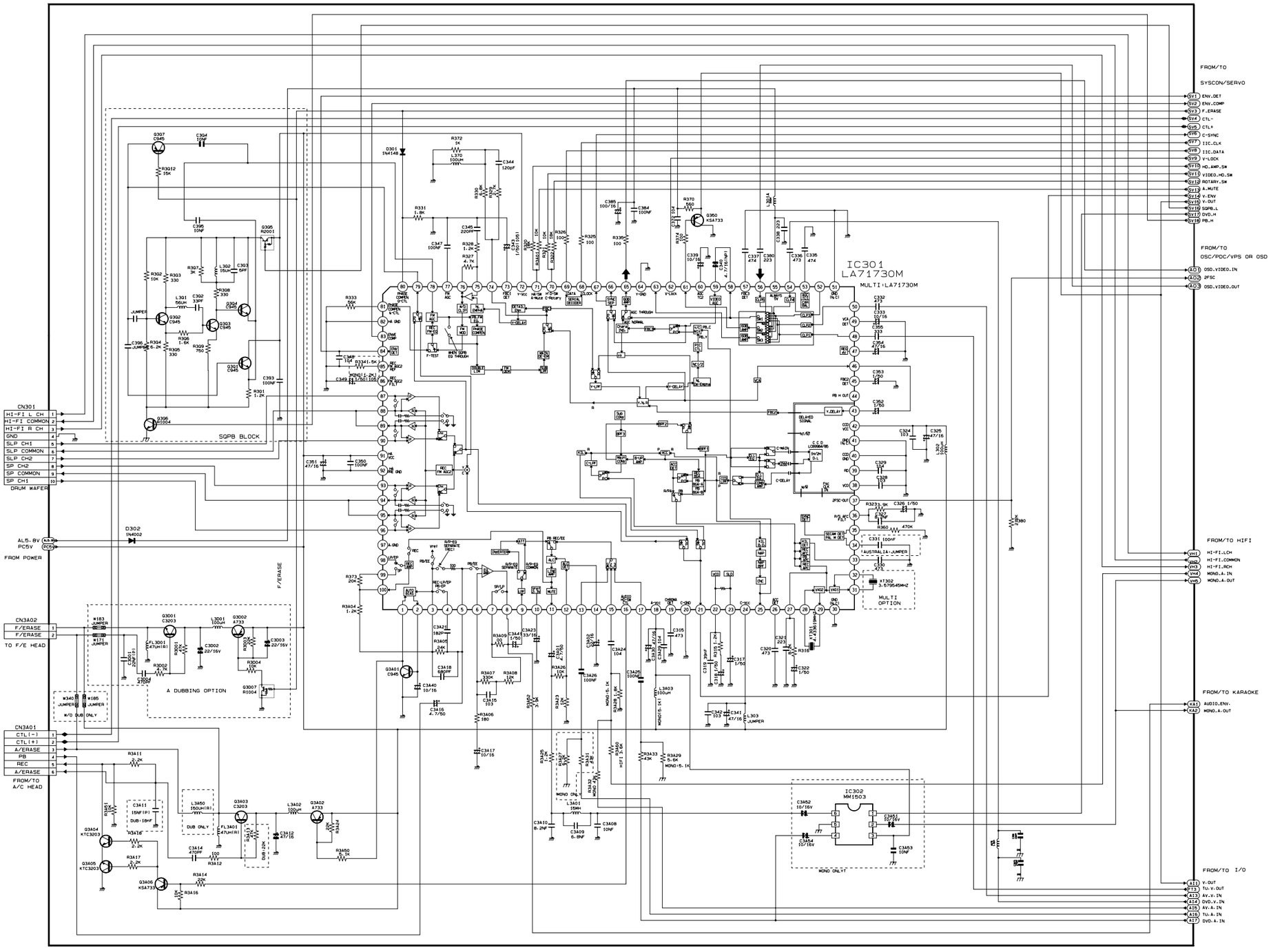
10-4 Function-Timer (DVD-V52 Only)



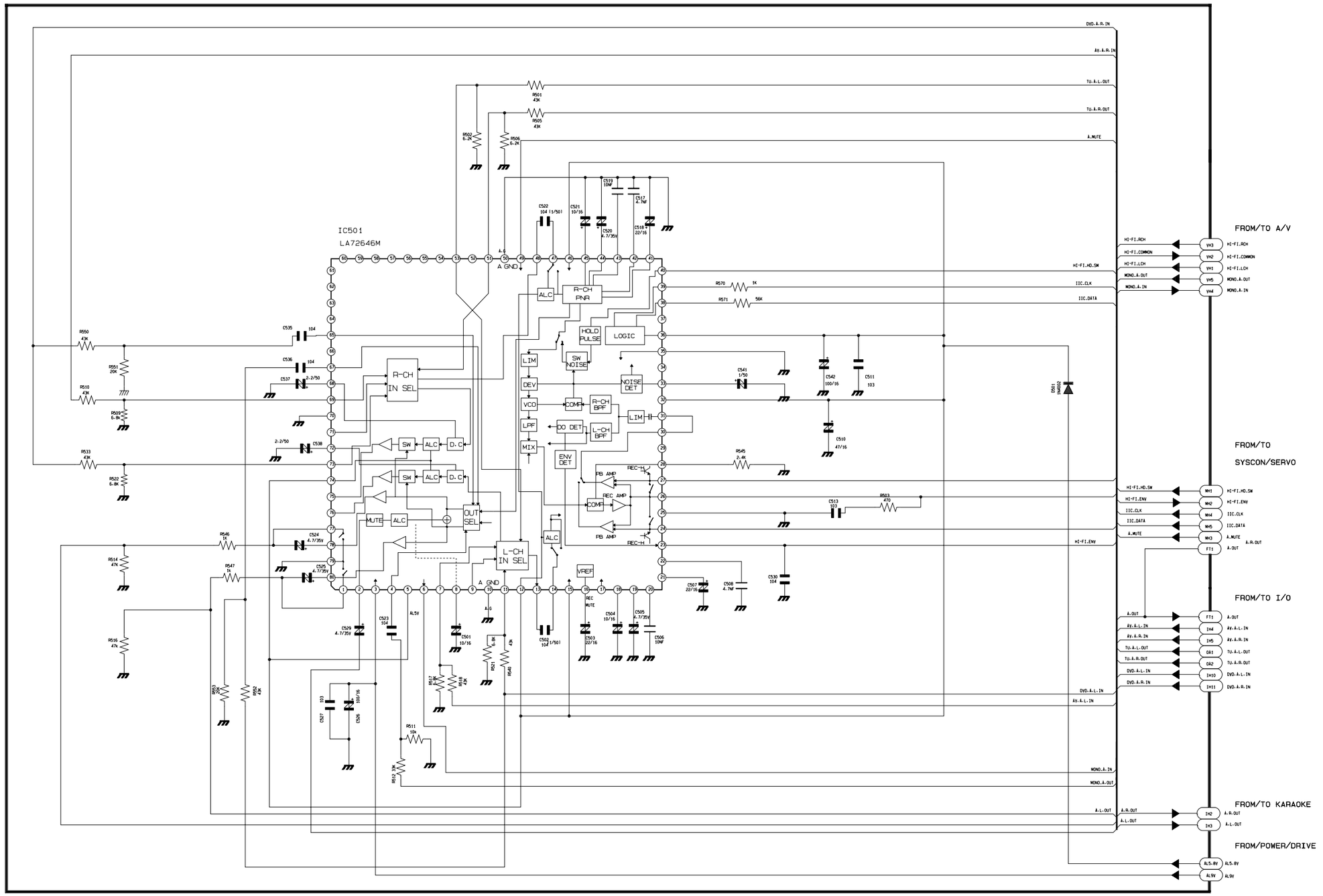
10-5 System Control/Servo



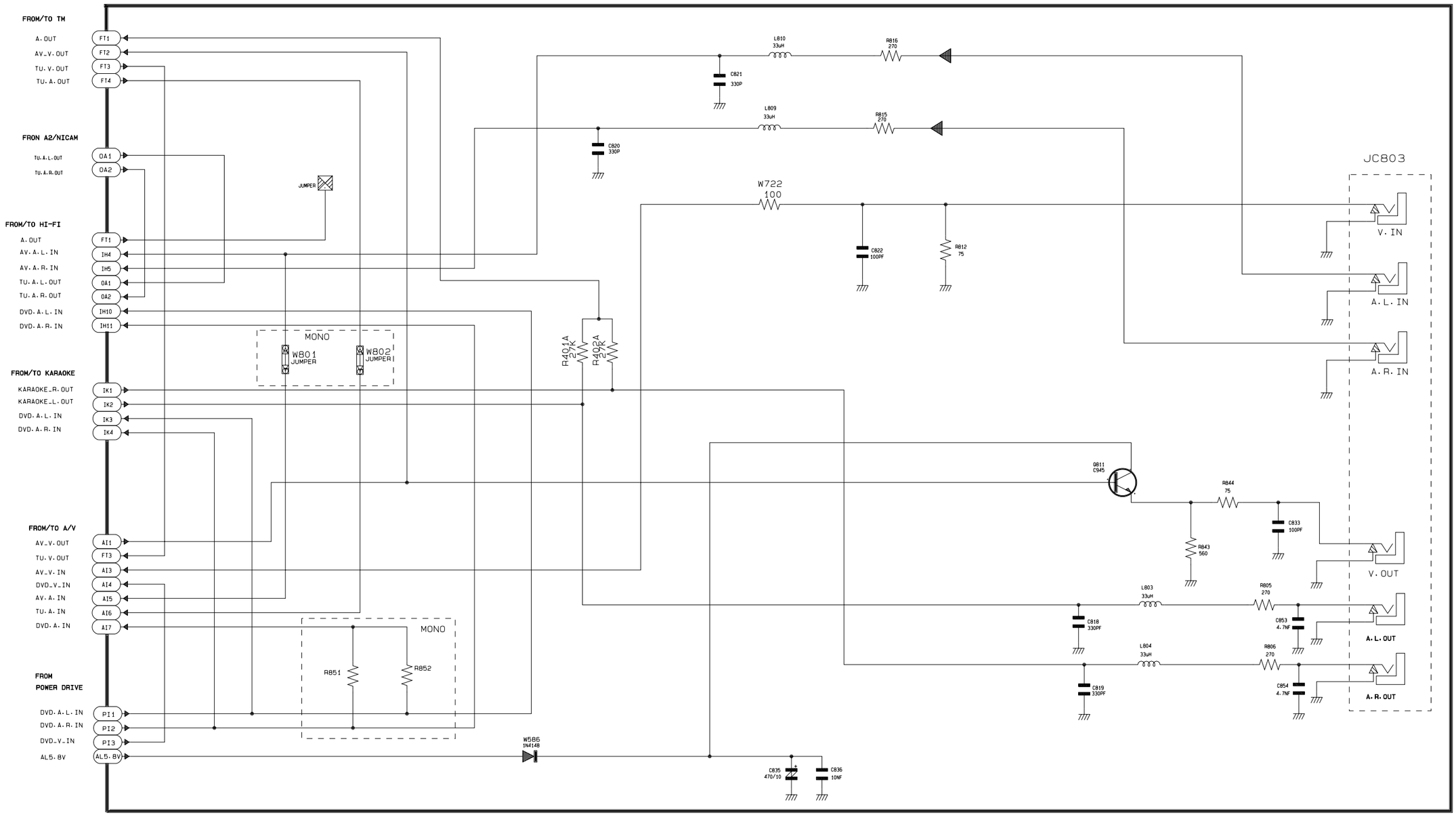
10-6 A/V


IC301
LA71730M
MULTI:LA71730M
IC302
MM1503
MULTI OPTION
A DUBBING OPTION
SQPB BLOCK
F/ERASE
MONO ONLY
DUB ONLY
W/O DUB ONLY
AUSTRALIA-JUMPER
FROM/TO
SYSCON/SERVO
SV1 ENV.DET
SV2 ENV.COMP
SV3 F.ERASE
SV4 CTL-
SV5 CTL+
SV6 C-SYNC
SV7 IIC.CLK
SV8 IIC.DATA
SV9 V-LOCK
SV10 HD.AMP.SW
SV11 VIDEO.HD.SW
SV12 ROTARY.SW
SV13 A.MUTE
SV14 V.ENV
SV15 V.OUT
SV16 SQPB.L
SV17 DVD.H
SV18 PB.H
FROM/TO
OSC/PDC/VPS OR OSD
AD1 OSD.VIDEO.IN
AD2 2FSC
AD3 OSD.VIDEO.OUT
FROM/TO HIFI
VH1 HI-FI.LCH
VH2 HI-FI.COMMON
VH3 HI-FI.RCH
VH4 MONO.A.IN
VH5 MONO.A.OUT
FROM/TO KARAOKE
KA1 AUDIO.ENV.
KA2 MONO.A.OUT
FROM/TO I/O
A11 Y.OUT
A12 TU.V.OUT
A13 AV.V.IN
A14 DVD.V.IN
A15 AV.A.IN
A16 TU.A.IN
A17 DVD.A.IN
CN301
HI-FI L CH
HI-FI COMMON
HI-FI R CH
GND
SLP CH1
SLP COMMON
SLP CH2
SP CH2
SP COMMON
SP CH1
DRUM WAFER
AL5.8V
PC5V
FROM POWER
CN3A02
F/ERASE
F/ERASE
TO F/E HEAD
CN3A01
CTL(-)
CTL(+)
A/ERASE
PB
REC
A/ERASE
FROM/TO
A/C HEAD

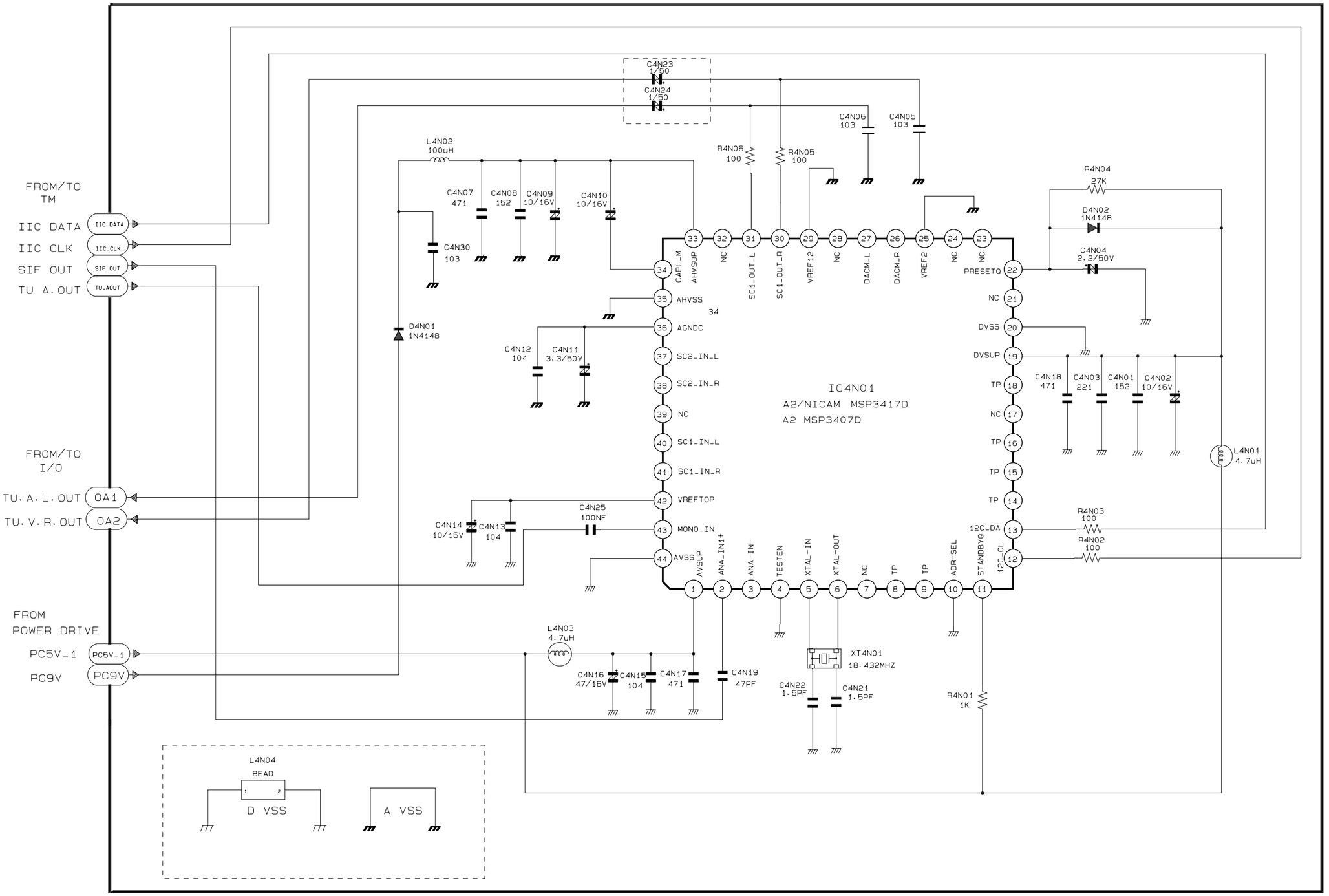
10-7 Hi-Fi/MTS (Option)



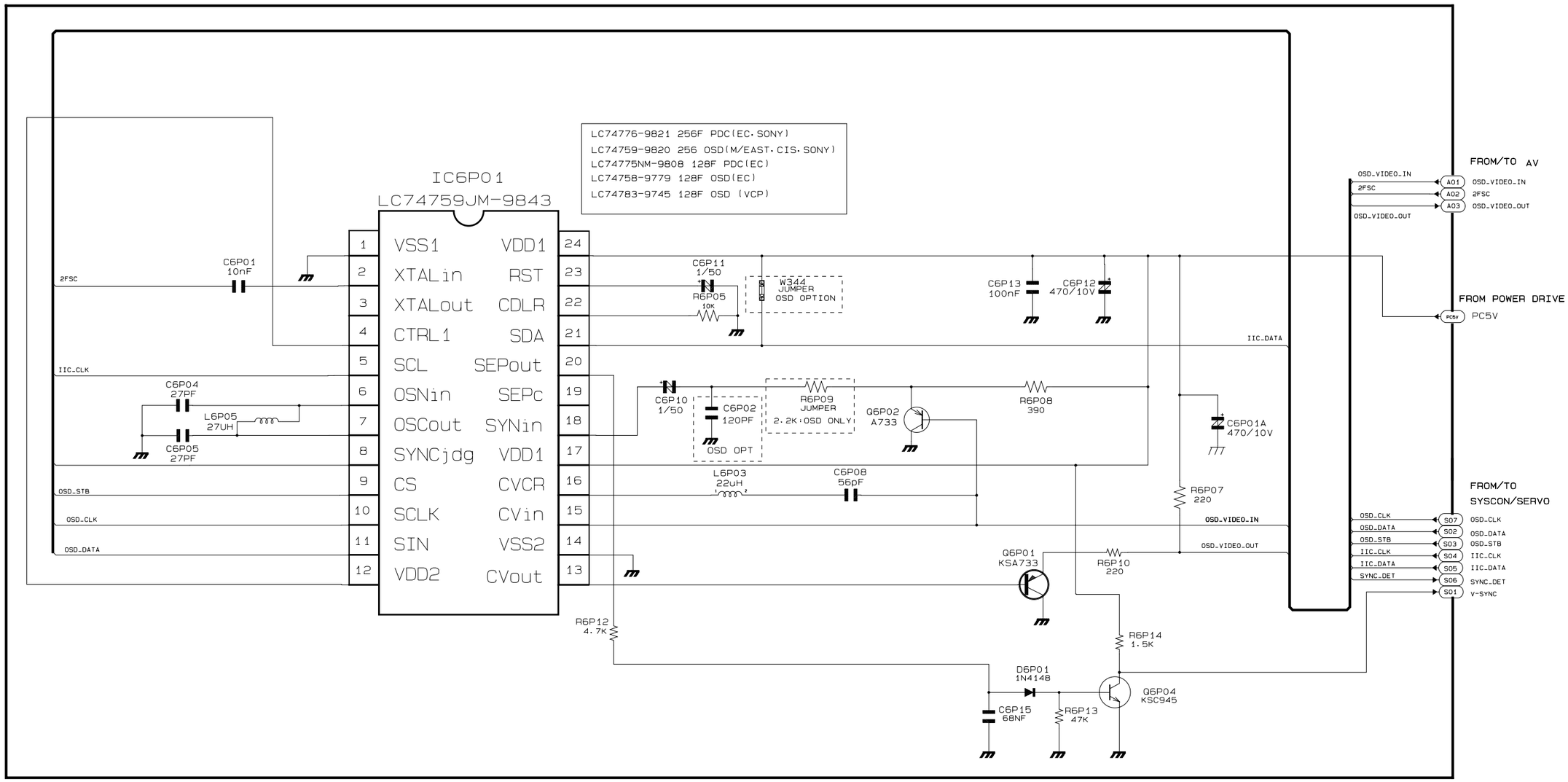
10-8 Input-Output



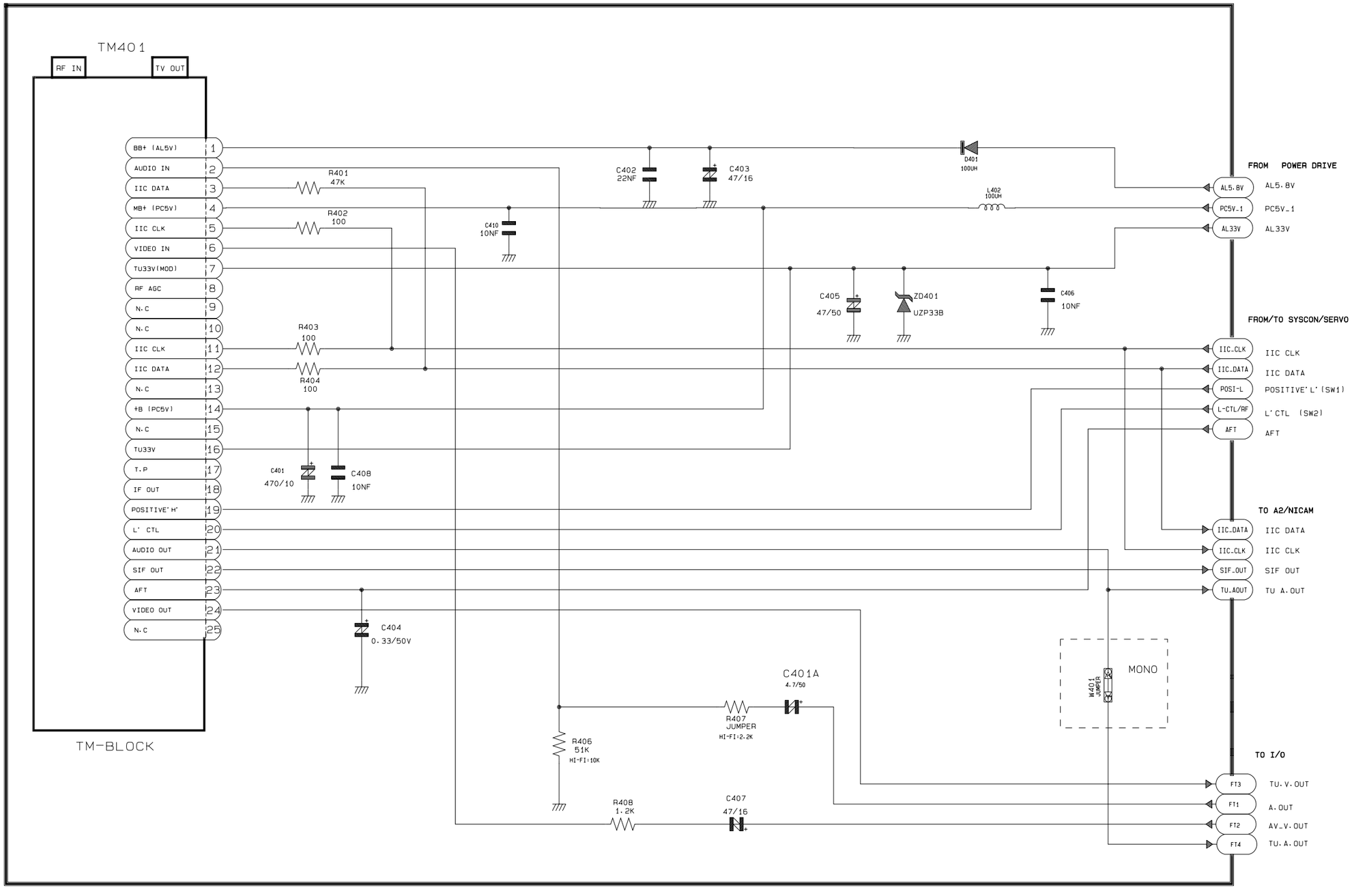
10-9 A2/NICAM (DVD-V85K/V72K Only)



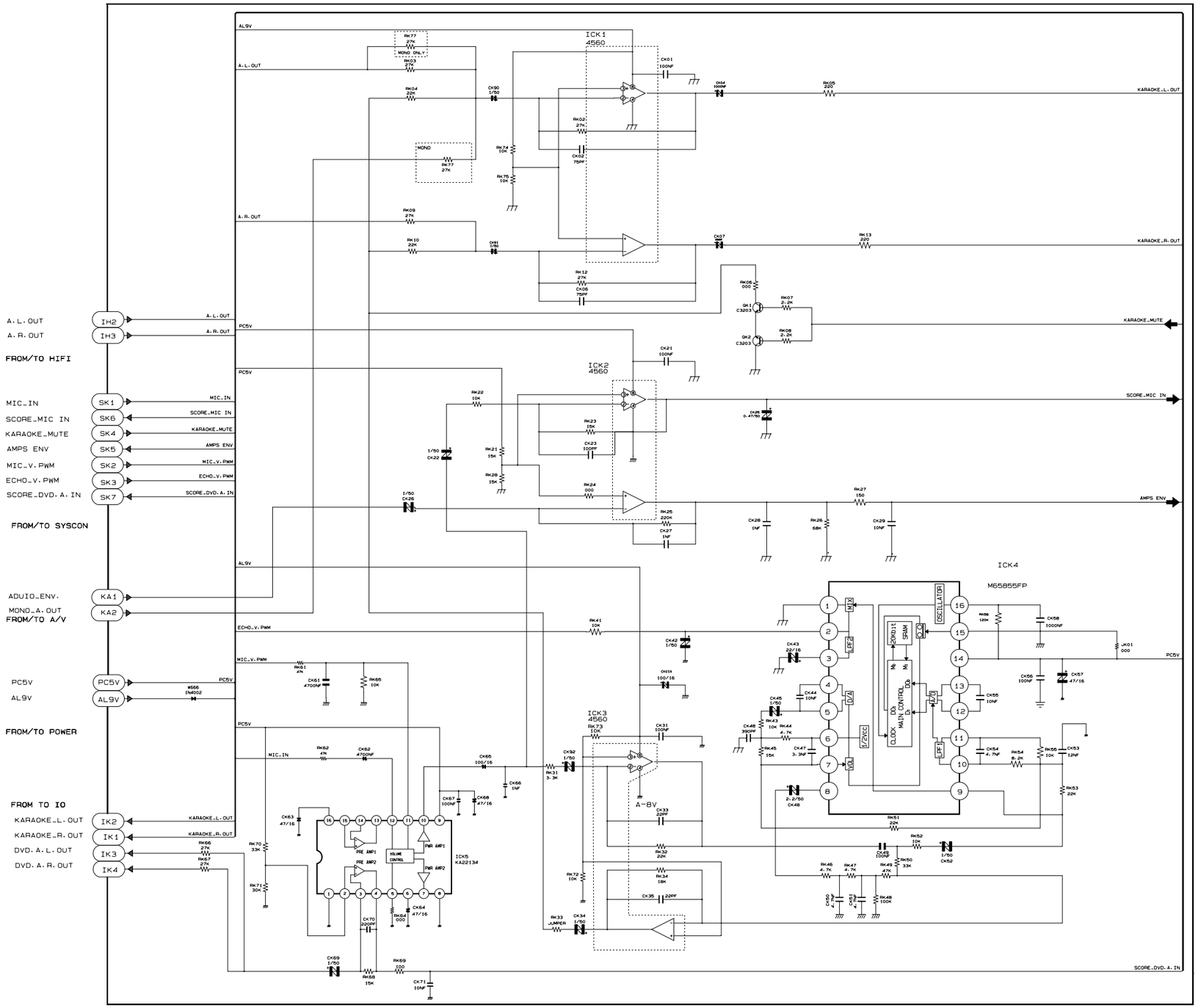
10-10 OSD/VPS/PDC



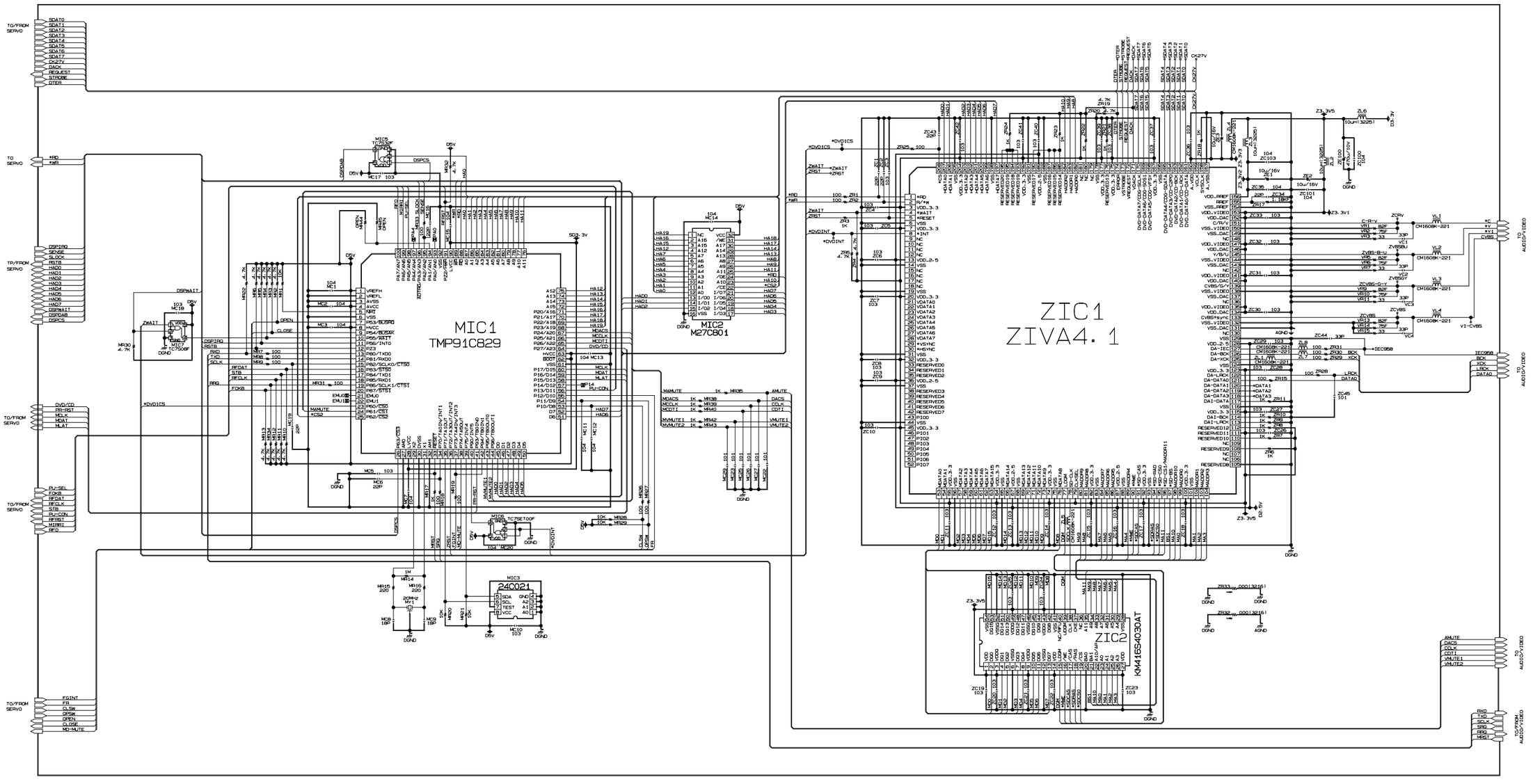
10-11 TM (DVD-V85K/V72K Only)



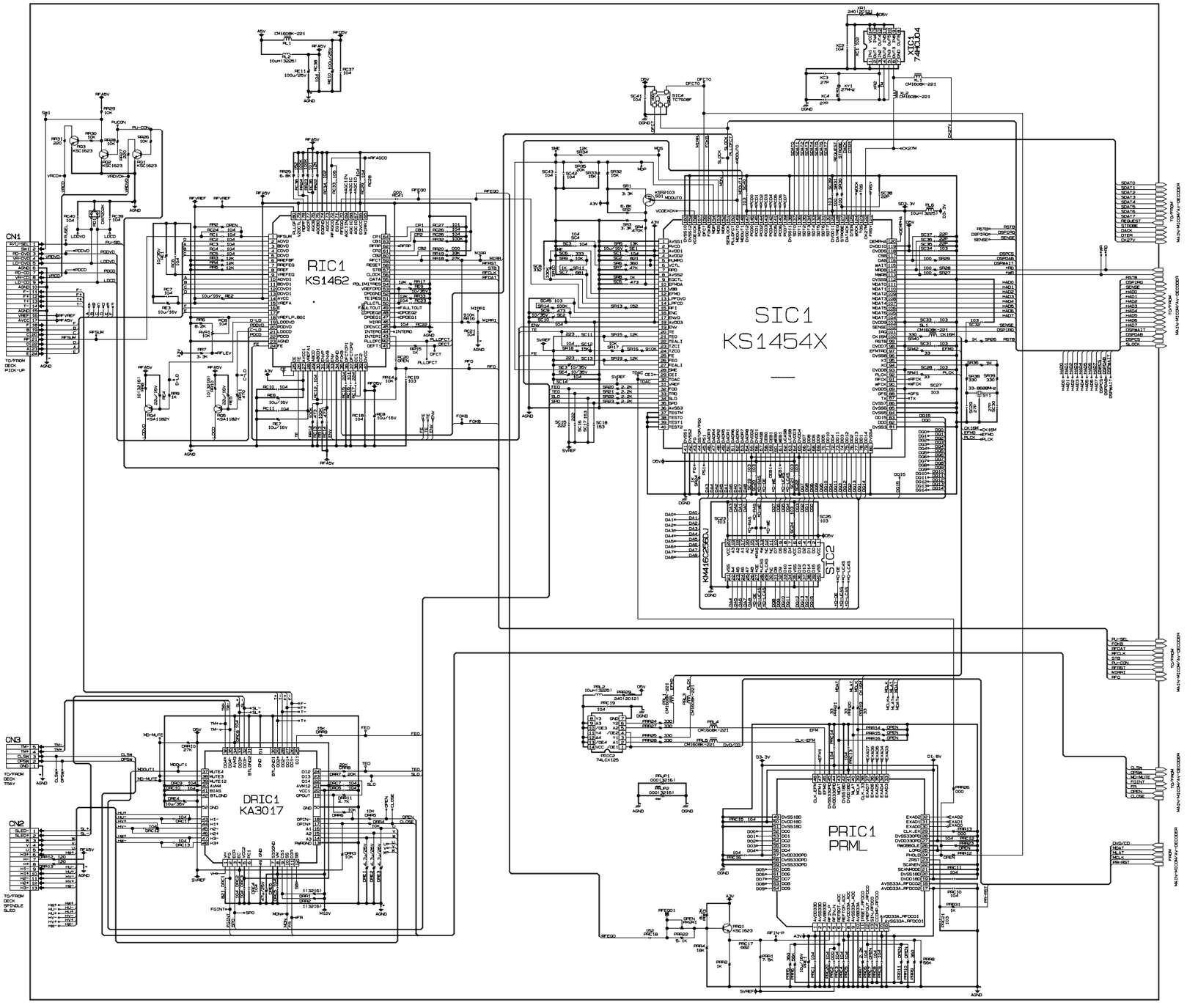
10-12 KARAOKE



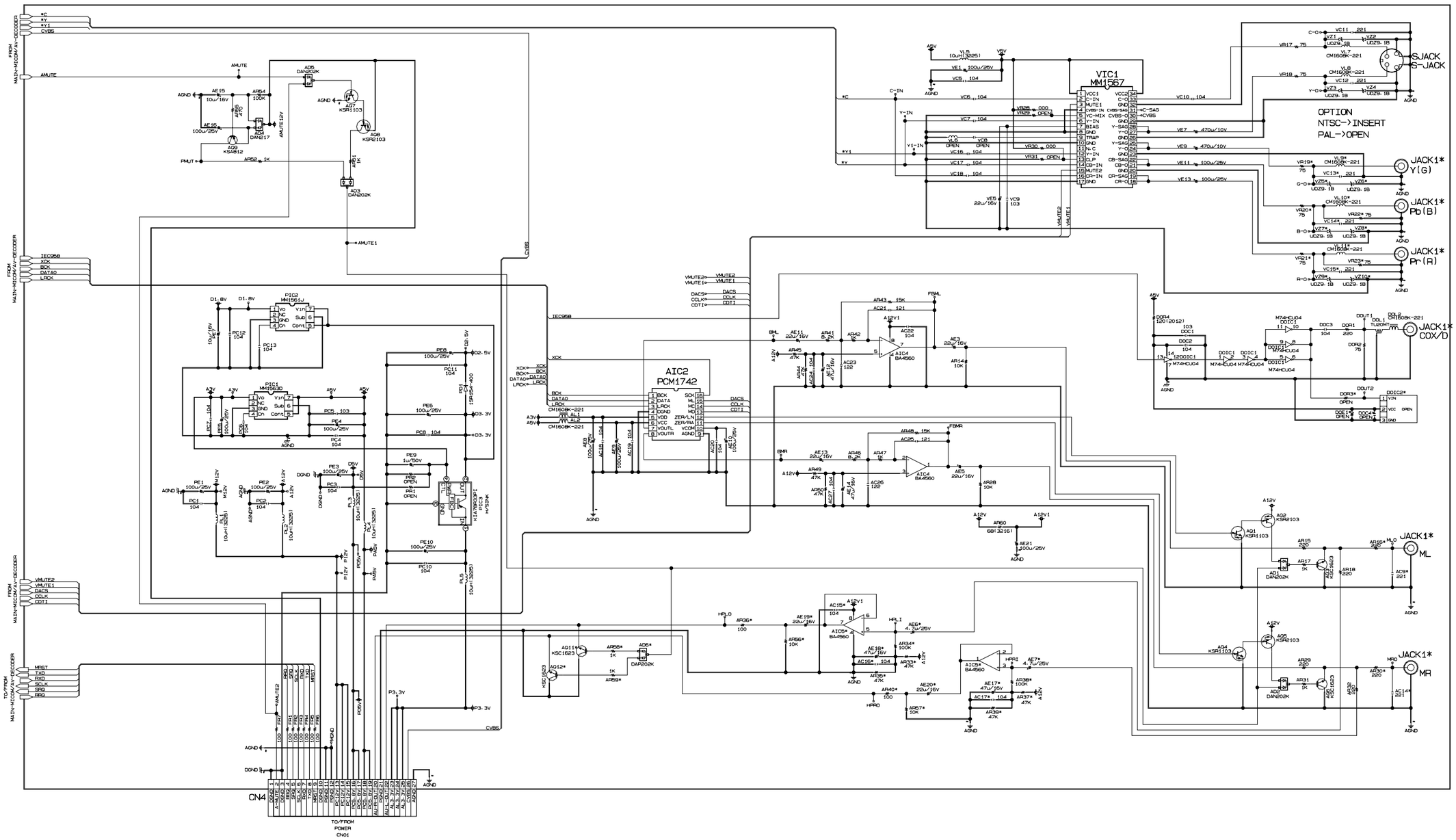
10-13 DVD Main-Micom/AV Decoder



10-14 DVD Servo



10-15 DVD Audio/Video



MEMO